

# UNITED STATES PATENT AND TRADEMARK OFFICE

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/017,798	12/12/2001	Valentin Kramer	31567.3	9144	
27683 75	590 12/01/2003		EXAMINER		
HAYNES AND BOONE, LLP			CHANG, VICTOR S		
901 MAIN STREET, SUITE 3100 DALLAS, TX 75202			ART UNIT	PAPER NUMBER	
			1771	- <del></del>	
			DATE MAILED: 12/01/2003	3	

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Applicat	tion No.	Applicant(s)				
Office Action Symmony		10/017,	798	KRAMER ET AL.				
Office Action Summary			er	Art Unit				
		Victor S	-	1771				
Period fo	The MAILING DATE of this communication or Reply	ı appears on ti	he cover sheet with the c	orrespondence addres	is			
THE I - Externanter - If the - If NC - Failu - Any r	ORTENED STATUTORY PERIOD FOR RIMAILING DATE OF THIS COMMUNICATION of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, to period for reply is specified above, the maximum statutory property of the property of the property will, by state that the property will, by state that the property of the property of the organization of the property of the property of the organization of the property of the pr	DN. FR 1.136(a). In no end. In no end. In reply within the stage of the stage of the stage of the stage of the apply and statute, cause the apply and statute.	event, however, may a reply be tin atutory minimum of thirty (30) day will expire SIX (6) MONTHS from pplication to become ABANDONE	nely filed  rs will be considered timely.  the mailing date of this commu D (35 U.S.C. § 133).	inication.			
1)🖂	Responsive to communication(s) filed on $\underline{\zeta}$	02 September	<u>2003</u> .					
2a)□	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)[	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)🖂	4) Claim(s) <u>1-14</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)[	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-14</u> is/are rejected.							
	Claim(s) is/are objected to.							
8)[]	Claim(s) are subject to restriction a	nd/or election	requirement.					
Applicati	on Papers							
9)[	The specification is objected to by the Exar	miner.						
10)🖾	The drawing(s) filed on <u>12 December 2001</u>	is/are: a)⊠ a	accepted or b)□ object	ed to by the Examiner	·.			
	Applicant may not request that any objection to		<del>-</del>	, ,				
	Replacement drawing sheet(s) including the co	•			. ,			
	The oath or declaration is objected to by the	e Examiner. N	lote the attached Office	Action or form PTO-1	52.			
•	ınder 35 U.S.C. §§ 119 and 120							
a)[ * S 13)	Acknowledgment is made of a claim for for All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Busee the attached detailed Office action for a acknowledgment is made of a claim for domice a specific reference was included in the CFR 1.78.  The translation of the foreign language acknowledgment is made of a claim for domice acknowledgme	nents have be- nents have be- priority docum- ireau (PCT Ru- list of the cert nestic priority use first sentence provisional and	en received. en received in Application received in Application 17.2(a)). lified copies not receive under 35 U.S.C. § 119(a) e of the specification or pplication has been received ander 35 U.S.C. §§ 120	on No  ed in this National Staced.  e) (to a provisional apprin an Application Data  eived.  and/or 121 since a sp	olication) a Sheet. pecific			
	e of References Cited (PTO-892)		4) Then iew Summan	(PTO-413) Paper No(s)				
2) 🔲 Notice	e of Draftsperson's Patent Drawing Review (PTO-948 nation Disclosure Statement(s) (PTO-1449) Paper No	) (s) <u>3 105</u>		atent Application (PTO-152				

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election with traverse of Group I in response filed 9/2/2003 is acknowledged. The traversal is on the ground(s) that "the applicant is not presently claiming a method of making a different product". Upon reconsideration, the Examiner now agrees that method claims 10-14 mirrors product claims 1-9 with conventional method steps. As such, the restriction requirement of Paper No. 0715 is withdrawn.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

More particularly, in claim 1, lines 3-6, the recitation "wherein one pore size distribution comprises smaller pore sizes than another pore size distribution and the smaller pore size distribution is found within the larger pore size distributions" appear extremely vague, indefinite and confusing. It is unclear to the Examiner how the two pore-size-distributions (or two domains each clearly defines a distinct pore size distribution) differentiate from each other, because any <u>distribution</u> could inherently be arbitrarily further divided into <u>distributions</u> of different sizes.

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In claim 9, the phrase "reinforced sheet" is vague and indefinite, it is unclear to the examiner what is the scope of the "reinforced sheet", as it is absent from the Specification. For the purpose of the present Office Action, it is presumed to be any polymer coating which enhances the mechanical properties of the ePTFE sheet.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

### Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-14 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over admitted prior art.

In the Specification, page 1, lines 14-21, Applicants appear to have admitted that DE 690 03 879 describes an expanded PTFE material comprising a mixture of a PTFE having a high molecular weight of 2.000.000 or more and a PTFE having a low molecular weight of 1.000.000 or less. The size of the pores of the PTFE-material can

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be varied by changing the mixing ratio between the high molecular weight PTFE and the low molecular weight PTFE. The PTFE-material can exhibit different shapes, for example a foil, sheet or cube. Further, Applicants also admitted that many similar designs of ePTFE tubes serving as vascular grafts can be found in the market place, and uniaxially expanded ePTFE tube can be reinforced with a ring complex (Specification, page 1, lines 27-33).

For claims 1-5, although the admitted prior art lacks an express teaching of the pore size distribution, it is noted that the scope of the admitted prior art, in particular the use of PTFE molecular weights to vary the pore sizes, are essentially the same as the instantly claimed invention. As such, in the absence of unexpected results, it is believed that suitable pore size distributions are either inherently disclosed, or an obvious optimization to one of ordinary skill in the art. Additionally, in the absence of clearly defined domains, the instantly claimed pore size distributions also appear arbitrary and may be any infinite combinations, as set forth above.

For claims 6-8, Applicants have admitted that it is known art to form different shapes, including sheet and reinforced tube, as set forth above.

For claim 9, it is well known that ePTFE sheet can be coated with a layer of polyurethane polymer to make breathable lining for garment.

Method claims 10-14 essentially mirror the product claims, and employ only conventional method steps, and as such are rejected.

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7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In addition, the following references are cited of interest for

making expanded PTFE:

US 4902423 to Bacino is directed to a porous PTFE membrane having a seies of

rows of nodes running transversely across the membrane.

US 4952630 to Mrogan et al. Is directed to a PTFE material comprises

aggregations of nodes, short fibrils interconnecting the nodes to form the aggregations

and long fibrils interconnecting the aggregations (column 14, lines 45-60).

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Victor S Chang whose telephone number is 703-605-

4296. The examiner can normally be reached on 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Terrel H Morris can be reached on 703-308-2414. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or

proceeding should be directed to the receptionist whose telephone number is 703-308-

0661.

DANIEL ZIRKER PRIMARY EXAMINER GROUP <del>1300</del>-

Amil Zukin

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